Potential Negative Impacts of Pesticides on Pollinator Using IPM and Other Conservation Practices, pg. 9.) Figure 3. Georgia NRCS IPM Standard Jobsheet, October 2016. (Source 2014 NRCS Agronomy Technical Note 9, Preventing or Mitigating

IPM techniques for reducing pesticide environmental risk

		Mitigation i	Mitigation index value 4		
		(by pesticide	(by pesticide loss pathway)		
IPM techniques ¹	Leaching	Solution	Adsorbed	Drift	Function and performance criteria
Application timing—ambient temperature				OI	 Reduces exposure—spraying during cooler temperatures (e.g., early morning, evening or at night) can help reduce drift losses
		د ا			 Avoid spraying in temperatures above 90 °F
Application timing—rain	15	15	15		• Reduces exposure—delaying application when significant rainfall events are
					forecast that could produce substantial leaching or runoff can reduce pesticide transport to ground and surface water
Application timing—relative humidity				СЛ	 Reduces exposure—spraying when there is higher relative humidity reduces evanoration of water from spray droplets thus reducing drift losses
Application timing—wind				10	 Reduces exposure—delaying application when wind speed is not optimal can reduce pesticide drift
					 Optimal spray conditions for reducing drift occur when the air is slightly un- stable with a very mild, steady wind between 2 and 9 miles per hour
Formulations and adjuvants ^{2, 3}	Ö	ਹਾ	O1	ଧ	 Reduces exposure—specific pesticide formulations and/or adjuvants can in- crease efficacy and allow lower application rates; drift retardant adjuvants can reduce pesticide spray drift
Monitoring + economic pest thresholds	15	15	15	15	 Reduces exposure—reduces the amount of pesticide applied with preventative treatments because applications are based on monitoring that determines when a pest population exceeds a previously determined economic threshold
Partial treatment	15	15	15	10	 Reduces exposure—spot treatment, banding and directed spraying reduces amount of pesticide applied
					 Assumes less than 50 percent of the area is treated
Precision application using smart sprayers	10	10	10	10	 Reduces exposure—using smart sprayer technology (i.e., green sensors, sonar- based sensors, GPS-based variable rate application, computer controlled spray noveless of a logical standard traduce the amount of postficide applied
Setbacks	تا ا	ਹਾ	ຽາ	10	 Reduces exposure—reduces overall amount of pesticide applied; reduces offsite pesticide drift
					 Assumes that the setbacks with no application are at least 30 feet wide
Soil incorporation ^{2, 3}		15	15		• Reduces exposure—reduces solution and adsorbed runoff losses, but potentially increases leaching losses, especially for low $K_{\rm OC}$ pesticides
					 Applicable to shallow mechanical or irrigation incorporation
					 Not applicable if pesticide leaching to groundwater is an identified natural
					resource concern
		-			 Not applicable if soil erosion is not adequately managed